

# Linn County Nursery

SNYDER BROTHERS, Inc., Proprietors

1920



TOKA PLUM

DESCRIPTIVE CATALOGUE

**FRUIT TREES, SMALL FRUITS  
Evergreens and Ornamentals**

Center Point, Iowa



# Senator Dunlap

(S)

The best spring berry to grow for either home use or market. Has a perfect blossom, is hardy, productive, a splendid keeper and able to hold its own under any "rough and tumble" methods of culture better than any other strawberry bearing in the spring. A very heavy bearer of large size, even fruit, of a very beautiful dark red color, of the very finest quality and flavor.

## Directions For Ordering

**Route.** If you have a preference, state whether you want your stock sent by freight, express or mail, and by what route. We have American and Wells Fargo Express; the C. R. I. & P. Railway; and the Cedar Valley Interurban, which makes quick connections with the main lines of the Illinois Central and Great Western at Waterloo and the N. W. and C. M. & St. Paul at Cedar Rapids, as well as the Iowa City, Mt. Vernon and Marion Interurban lines.

**Size and Price** of stock should be carefully specified. We use every effort to avoid mistakes, but in a busy season these occasionally occur. If notified promptly of any mistakes, however, we will gladly rectify them.

**Please Remit Cash with Order** whenever possible, especially with small orders. Satisfactory security is required from strangers who desire to open an account with us. Remittance may be made by check, draft, money order or registered letter. Stamps are acceptable for amount up to \$1.00. Make remittances payable to Snyder Bros. Inc.

**Order Early.** Every spring we are compelled to refuse orders for certain lines of stock of which we are entirely sold out. Order early and you will be more sure of getting what you want as well as the choicest stock.

The following certificate is attached to all shipments leaving our nursery.

State of Iowa

## Certificate of Nursery Inspection

Office of State Entomologist

Ames, Iowa

**This is to Certify.** That in accordance with Chapter 53 of the Acts of the Twenty-seventh General Assembly, as amended by the Thirty-first General Assembly (Code Section 2575-a51), the nursery stock for sale by the Linn County Nurseries, Snyder Bros., Props., of Center Point, Iowa, has been inspected by a duly authorized inspector and has been found apparently free from dangerously injurious insects and plant diseases.

This certificate is invalid after July 31, 1916.

Certificate No. 52.

Dated August 27, 1915.

J. E. GUTHRIE,  
Asst. State Entomologist.

# The Linn County Nursery



The Linn County Nursery was established in 1892 by A. Snyder & Son. After the death of the senior member of the firm, it was conducted for several years by S. W. Synder, who in 1907 was joined by a younger brother under the firm name of Snyder Bros. Both of the present members, therefore, have had long experience in this business, and in over twenty years have seen it grow from a few rows of stock on the farm to a large acreage of stock growing mostly at Center Point.

In 1915 the firm of Snyder Bros. was incorporated and is now Synder Bros., Inc. The management remains the same as before.

The orchard originally planted by A. Snyder has been greatly enlarged and now contains hundreds of varieties and more are being added every year. From the start it has been the aim of the proprietors to use as parent trees only those trees of a variety which have produced the best results in the orchard; this makes our trees what many call "pedigreed stock." Practically all our cions are grown in our own orchard. Those which are not are procured from the most reliable sources. We never send out want lists to see where they can be bought cheapest.

**Descriptions.** It is our intention in this catalog to furnish accurate descriptions and in every case avoid exaggerations which are so common in nursery catalogs. We aim to test out every variety in our orchard before giving it a place in the catalog.

**Packing facilities.** Few nurseries are as well equipped to handle retail orders for a large line of stock as we are. Our main building is 100x100 with storage cellar 60x64, graft cellar, label room, etc., and is fitted with modern appliances for handling heavy boxes, maintaining humidity, etc. None of our stock is handled outside. We use particular care to see that every box and bale is well prepared and the roots well covered with moist packing.

**Location.** Our office and packing house are located three blocks south of the C. R. I. & P. and Cedar Valley Interurban stations and the main nursery extends one-half mile southeast along their tracks. Thirty passenger trains pass by or through the nursery daily, making it an easy point to get to or from and giving splendid express service.

Automobiles can easily reach our place and afford a splendid means of moving stock anywhere within a radius of fifty miles. If the customer brings several old blankets to cover the cushions we can load two or three hundred 4-5-ft. fruit trees or 2-3-ft. evergreens into a touring car without injuring it.

**Prices.** The prices usually quoted are for first-class stock of the larger and heavier grades. Lighter and smaller grades will be quoted upon request. We have larger stocks of many things than are listed in the price list and will be pleased to quote prices on them.

**Guaranty.** We exercise great care to keep our varieties true to name, and are ready at any time to replace any stock that may prove untrue, or refund the amount paid for same; but it is mutually agreed that we are not to be held liable for any amount greater than the original price of the goods.

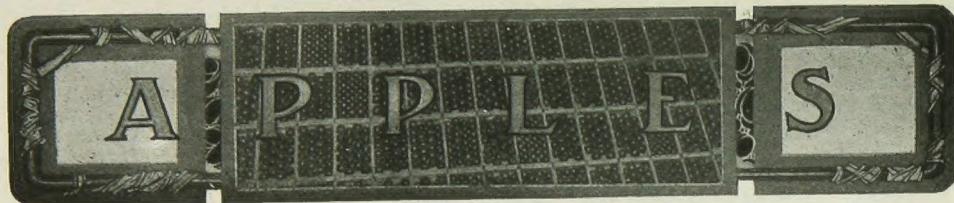
**Condition.** We accept all orders on condition that they shall be void should any injury befall the stock from hail, frost, storm, fire or other cause over which we have no control.

**Visitors Welcome.** Tree lovers find much satisfaction in seeing and selecting the stock they buy; we take pleasure in inviting all interested in nursery stock to visit our nurseries and inspect the stock while it is growing.

Anyone wanting extra large and fine specimens of Evergreen or Shade Trees can select them at any time of the year. Anything thus selected will be tagged with the customer's name and delivered at the proper time.

**Varieties Not Listed in This Catalog.** We have some stock of many trees and plants not described in this catalog. If what you want is not listed, write us; we may have it and if not, can secure anything grown by American nurserymen at a reasonable price.

**SNYDER BROTHERS, Inc., Center Point, Iowa**



Apples thrive in almost any well-drained soil. They respond to good care and cultivation and pay well for it. A farm with a well-cared-for orchard will sell for much more than one without. The old orchard is one of the last things forgotten about an old homestead.

**Commercial orcharding.** Iowa is in the heart of the apple-producing region of the United States. Commercial orcharding has great possibilities here. By intensive methods it has been proved that apples can be made as sure a crop here as anywhere, and many well-tended orchards are yielding large profits to their owners. The quality of Iowa apples cannot be excelled and their size and color compares well with that of the more tasteless apples of the West.

**Varieties.** In planting a commercial orchard it is judicious to plan but a few varieties and these should be selected with reference to securing the best pollination. Experience has shown that large block of single varieties are often more or less barren. Home orchards should be selected to have fruit from early until late.

**Size to Plant.** For commercial orchards it is always best to choose small, thrifty trees one or two years old and from three to five feet high, as these are more safely transplanted and with more satisfactory results than older and larger trees; in fact, the three to four-foot size is now being more used in commercial plantings than any other.

**How Propagated.** Our apple trees are grafted by the most approved methods, aiming to produce trees best adapted to withstand the rigors of this climate. We use the piece root and long scion and plant up to the top bud. This makes a tree on its own roots and of known hardiness. Experience has repeatedly proved that trees budded or grafted on whole roots are not harder than the seedling roots used, which are very variable and often too tender. Orchards of budded or "whole root" trees after a test winter will be found to contain scattering live trees surrounded by dead ones of the same varieties, because they had no roots of their own and only a few of the seedlings upon which they were budded or grafted were hardy enough to survive.

## Summer Apples

**Beautiful Arcade**—Medium large, yellow with red splashes and streaks. Flesh white, tender, sweet and very pleasant. Last of August and September. Tree an upright grower, very hardy and vigorous; one of the most desirable varieties for the North and Northwest.

**Duchess** (Oldenburg, Duchess of Oldenburg)—Large, yellow with large stripes; sour. Very valuable for market and culinary purposes. August and September. A Russian variety which is very hardy, vigorous and prolific.

**Liveland** (Liveland Raspberry, Lowland Raspberry)—Medium to large, beautiful blushed, round; flesh tender, mild

and delicious. The first to ripen and the best of the early apples. Tree very hardy, thrifty and prolific.

**Sops of Wine**—Medium to large, roundish, red; flesh mild and of excellent quality. August and September.

**Summer Pear**—Large, round, yellow with red cheek; mild, melting and very good. Very hardy, vigorous, and a new variety of much promise.

**Yellow Transparent**—Large, yellow, sour, of good quality and very early. One of the hardiest of varieties, but very subject to blight.

Also Benoni, Early Colton, Sweet June, Red Astrachan, Tetofsky and others.

## Fall Apples

**Anism**—Medium, roundish, deep red, mild and good. September and October. One of the hardest and most prolific of all varieties.

**Chenango**—Large to very large, yellow, red striped, mild and very good. August and September.

**Eastman**—Large, roundish, yellow, reddish striped, good. September to October. Very hardy and vigorous.

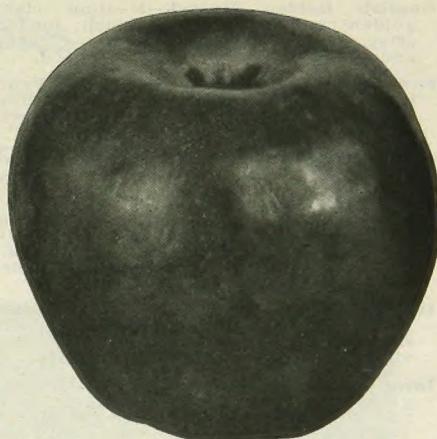
**Hibernal**—Large, red striped, very sour, of poor quality. September and October. Extremely hardy; valuable as a stock for top-working.

**Lord's L.** (Lord's Longfield)—Medium, roundish, solid, bright red and of fine quality. A very early and heavy bearer; thrifty and hardy. A splendid new variety. October and November.

**Longfield**—Medium or small if not thinned; round, yellow with red blush; flesh white, fine grained, tender and richly flavored. October and later. Very hardy and extremely prolific; often bears in the nursery. One of the very best apples on the list for culinary purposes.

**None Such**—Large, handsome, yellow overlaid with red, tender, and has a distinct flavor. A good grower and heavy bearer. November to January.

**Wealthy**—Large to very large, roundish, yellow, red striped; flesh mild, very good. October and November. Valuable for home use or market. It is a winter apple in the North; one of the best varieties for cold storage.



**Delicious.**

**Wolf River**—Very large, roundish, white with red stripes; mild; of fair quality for cooking.

Also Bailey Sweet, Fall Orange, Irish Peach and others.

## Winter Varieties

**Akin**—Akin's Red. Much like Jonathan. Medium, round, red; very good. Vigorous, hardy and a high quality apple.

**Allen's Choice**—Medium, roundish, striped, very good, juicy and aromatic. December to March. A very early bearer; vigorous and hardy.

**Arctic**—Large, roundish, yellow with red; mild and good. December to February.

**Baldwin**—Medium to large, bright red, crisp and juicy. An Eastern variety which succeeds well here in some localities. December to March.

**Ben Davis**—Large to very large; yellow with red stripes; mild and of fair quality. A late variety; valuable chiefly for market; should not be planted much north of Central Iowa.

**Black Annette**—Medium to small, roundish, very dark green and red, mild and good. December to April. Good for home use.

**Black Ben Davis** (Regan's Red)—Large to very large; dark red mild and very good. December to March. Larger, better colored and somewhat better than Ben Davis, but of about the same hardiness.

**Brilliant**—Large, brilliant deep red, very juicy, nearly sweet with a pleasant flavor. A hardy and productive seedling of Snow which keeps later.

**Champion (Collin's Red)**—Large, bright red, good. A market variety of the Ben Davis type, but keeps longer. Vigorous, healthy and a regular bearer.

**Colorado Orange**—Large, bright yellow; flesh firm, tender and juicy; desirable for all purposes. Hardy, vigorous and productive. January to April.

**Delicious**—Medium to large; yellow with red stripes; very fragrant and of the very best quality. The most popular variety at present and in greatest demand for planting. November to February.



**English Golden Russet**—Medium clear golden russet with slight blush; tender, crisp, juicy and high flavored. Hardy and productive. November to April.

**Evaline**—A Wisconsin seedling. Fruit large with yellowish green color; quality excellent; season February to March. A very promising new variety.

**Gano**—Large to very large, mild and good. Very prolific. December to March. Most profitable for a market variety.

**Grimes (Grimes Golden)**—Medium to large; deep yellow; mild and of very best quality. December to March. One of the very best apples for domestic or commercial planting.

**Hinkley (Lone Tree Seedling, Ideal, Legal Tender)**—Fruit almost identical with Rome Beauty, but tree more hardy and vigorous. A promising new variety.

**Iowa Blush**—Medium or small; roundish; greenish-yellow with red blush; mild and very good. December to March. Valuable for home use; very hardy and productive.

**Snow**—Medium, roundish, red striped or crimson; flesh mild, snow white, juicy, very highly flavored and delicious. November and December. One of the very best apples of its season.

**Jonathan**—Medium to large, roundish or conical, yellow and red, mild and very good. December to March. One of the most valuable for all purposes up to Central Iowa.

**King David**—Medium, dark red, somewhat mottled; flesh yellowish, with considerable of the Jonathan flavor, but richer, firmer and keeps later. A promising new variety.

**Malinda**—Large, yellow and red, mild and good. December to March. Very hardy, vigorous and prolific. One of the most valuable for planting in the North.

**Magnate (Magnet)**—Medium to large, rich dark crimson. Flesh yellowish, fine grained, juicy, rich and of very good quality. A promising Winesap seedling. October to January.

**McIntosh Red**—Large, round, yellow and red, mild and good. December to February. A splendid apple of the Fameuse type.

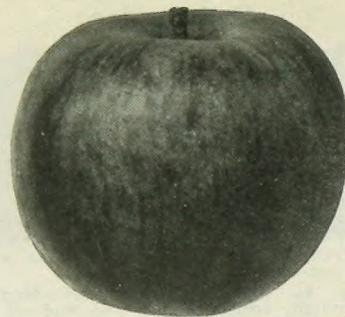
**Nelson Sweet**—Large, roundish, dark green; very sweet and good. Keeps all winter. A strong, free grower and very hardy.

**Newport**—A seedling of the old Yellow Bellflower and much like it except that the tree is much better both in hardiness and productiveness.

**Northern Spy**—Large to very large, roundish, yellowish, yellow with red stripes, mild and very good. December to March. An old variety which is gaining in popularity. We have been propagating our stock from a superior strain of this variety which we believe to be one of the best things on our list.

**Northwestern Greening**—Large to very large, green or yellowish green, mild and good. One of the very best cooking apples and especially fine for baking. On this account it sells well wherever known. December to April. Tree very hardy, vigorous and prolific.

**North Star**—Large, roundish, red and yellow, mild and good. November to December. Very vigorous and hardy; one



**Gano.**

of the best for commercial planting in the North, but ripens too early here.

**Paradise Winter Sweet**—Large, roundish, yellow, sweet and good. The best of all sweet apples for cooking. December to March. Hardy and very vigorous, but not very prolific in some localities.

**Patten's Greening**—Large to very large, round, yellow and good. October. A very hardy, crooked growing tree. Especially valuable in the North where it is a winter apple.

**Salome**—Large, round, yellow and red; mild and good. December to April. A very beautiful apple which is rapidly becoming popular.

**Sheriff**—Medium to large, red, mild and good. December to February. Bears early and regular. A variety too little known.

**Silas Wilson**—A very handsome apple about the size, color and season of Snow; quality excellent; an especially good eating apple. This is a Ben Davis seedling of much promise.

**Stayman (Stayman Winesap)**—Large to very large, roundish, red, mild and good. December to March. A seedling of the old Winesap, of much the same color and quality, but larger and harder. One of the best for commercial planting.

**Talman Sweet**—Medium to large, yellow, very sweet and good. December to February.

**University**—Large, clear yellow with small dots; flesh yellow, pleasant, sub-acid and very good. Late fall and early winter.

**Windsor**—Medium to large, round, yellow and red, mild and good. December to February.

**Winter Banana**—Large, round, bright yellow, mild, very good. December to March.

**Winter Fameuse**—Medium size, roundish; not as well colored as Fameuse or Snow; of the same quality, but keeps two or three months longer.

**Yellow Bellflower**—Large to very large, yellow; very good for all purposes. November to January.

**Wagener**—Large, roundish, yellow and red striped, mild and good. December to March. Very prolific; often bearing at three years of age.

Canada Baldwin, Jeneton or Rall's Janet, Isherwood, Plum Cider, Roman Stem, Weismers and others.

## Crab Apples

These hardy and beautiful trees should be among the first things planted. They can be depended upon to stand where other apples are not hardy enough, and produce an abundance of good fruit. Many of them make splendid eating apples and are a great delight to children. Prices the same as for apples.

**Transcendent**—Large; yellow and red; very good. Tree hardy, but blights badly.

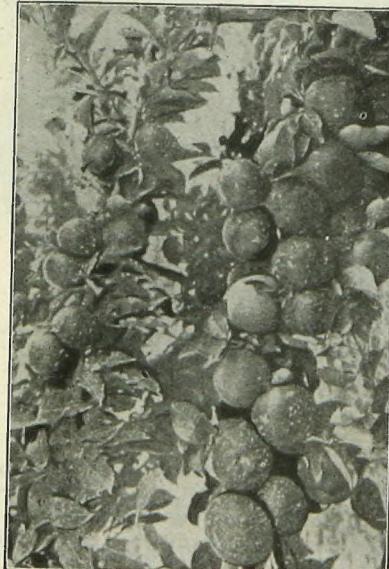
**Whitney No. 20**—Large to very large, greenish and red, very juicy and good. A splendid variety for eating and cooking. Tree very vigorous, hardy and handsome. Universally liked.

**Wild Red Crab**—A hybrid of the wild crab and cultivated apple. Fruit is as large as Whitney, red nearly all over, and keeps the year round. It has the aroma and flavor of the wild crab which makes it just the thing for people who like the sauce of the wild crab, as it is so much larger. The tree is far the most vigorous of any apple tree we ever grew, is very easy to transplant, makes a beautiful symmetrical tree, and is a regular and extremely heavy bearer.

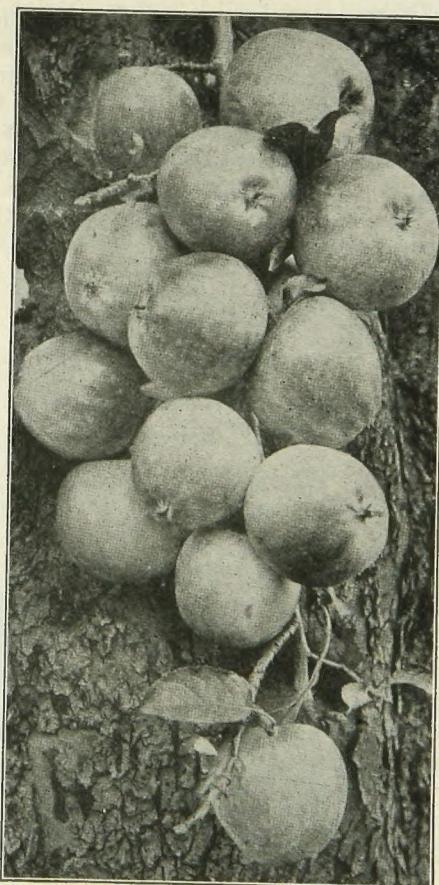
**Briar Sweet**—Medium; yellowish with red blush; very sweet and good. August to September. Slightly bitter if not fully ripe.

**Florence**—Large; yellow and red; very good for all purposes. Very hardy and productive.

**Gideon**—Large; yellow and white; very good. One of the best of the new varieties.



Transcendent.



Golden Beauty.

**Golden Beauty**—Very large and handsome golden yellow; very good.

**Sweet Russet**—Large to very large, yellow with some russet; very sweet and rich; a delightful eating apple. September.

Soulard, Red Siberian, Yellow Siberian, Hyslop, Northfield Beauty and others.

## Pears

Although formerly considered very unfavorable for Pear growing, Iowa soil and climate are proving themselves well adapted to the production of several varieties. No one should plant Pears extensively in this state without first assuring himself what varieties will succeed in his soil, but with proper investigation, we are convinced that every section of Iowa will produce some variety of Pear with excellent results. As a commercial fruit the pear stands close to the apple and the peach, and we are convinced that the time is near at hand when Iowa will grow the pears needed for its own markets.

The varieties listed below are considered especially free from blight, which is the great enemy of the Pear. This disease usually shows itself by the blackening and drooping of the leaves, and is controlled by cutting off the infected branches several inches beyond the point to which the disease extends and burning them. Dipping the pruning tools frequently during the process in a solution of bi-chloride of mercury will prevent their spreading the disease.

**Dwarf Pears**—Varieties marked with a \* can be furnished in dwarfs; these are budded on Quince root. Large size, caliper  $\frac{3}{4}$ -inch and up, same price as large-sized standards.

**\*Bartlett**—Large; yellow and red; juicy; melting and highly flavored. August and September. This excellent variety blights badly in many places in Iowa, so cannot be recommended for general planting.

**\*Flemish Beauty**—Large to very large; yellow with red blush; melting; juicy; sweet and good. September.

**Garber**—Large to very large; yellow and red; firm and granular; juicy and acid; of fair quality. October. A very vigorous grower.

**\*Kieffer**—Large; yellow; russeted; granular; juicy and sweet. October and November. A very hardy, vigorous variety, remarkably free from blight. An early and abundant bearer; valuable chiefly for cooking and canning. The fruit should be kept until well ripened before using.

**Lincoln**—Large; yellow and red; buttery, melting, sweet and very good. September. Hardy and prolific.

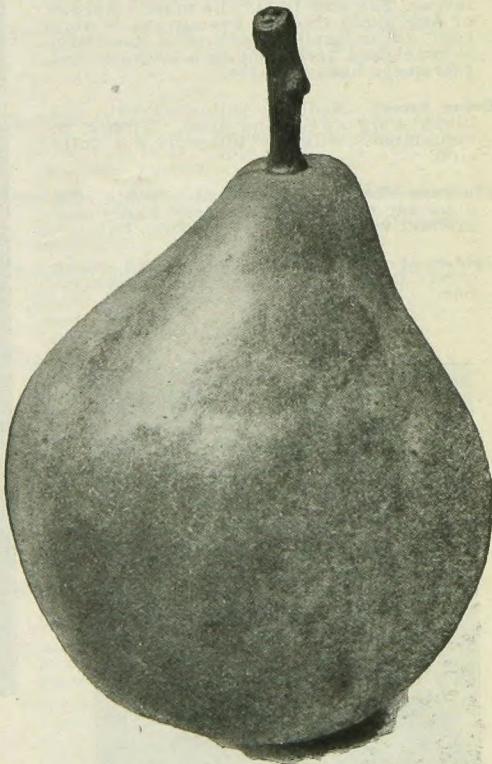
**Longworth**—Medium size, greenish, nearly round, free from grit, sweet and good. More free from blight and more prolific, and a more regular bearer than any variety in our orchard.

**\*Seckel**—Small; brownish-green with red russet; buttery; melting; juicy and delicious; of the very best quality. September. A slow growing, very hardy and healthy variety.

**Sheldon**—Large; greenish-yellow; russeted; melting; juicy, sweet and good. October.

**Rossney**—Large, yellowish, buttery, juicy, melting and very good. Hardy, vigorous and free from blight. One of our best varieties. September.

**\*Vermont Beauty**—Medium size, yellow and red, rich and juicy. Very good. October. Very hardy, vigorous, healthy and prolific. A splendid variety.



**Kieffer.**

**\*Wilder**—Small to medium; yellow shaded crimson; fine grained; tender and good. Vigorous and productive. August.

**Worden Seckel**—A seedling of Seckel; of similar quality, but much superior in size and color. Hardy and productive. October.

## Peaches

We have given much attention to collecting a list of the hardiest peaches and believe the list we describe cannot be excelled for hardiness. Varieties originating here in Iowa have generally been most successful. We do not claim them to be hardy like apples and plums. They may be mostly killed in a test winter and often injured but will quickly outgrow their injuries and generally bear three years out of five.

Our peach trees are budded upon the hardiest stock in existence, namely, seedlings produced from seed of the Bailey peach grown here in Linn county. Plant them about a foot deeper than they stood in the nursery, so that if the tree is ever killed back to the ground it will throw up a sprout from above where it was budded and thus renew the tree.

**Champion**—Large; creamy white with red cheek; flesh white, very sweet, juicy and rich. August. One of the best and hardiest of the early varieties.

**Elberta**—Very large; yellow with red blush; free stone; flesh yellow; juicy and good. Vigorous and moderately hardy. September.

**Leigh**—Originated in Mt. Vernon, Iowa. Large; white with red blush; free stone. Flesh white, very sweet, juicy, and good. August. The original trees have produced as many as eight bushels at a crop.

**Lone Tree**—Originated in Johnson county, Iowa. Medium to large, golden yellow; flesh yellow, juicy, rich and of the very best quality. Pit very small and free. September.

**Robins**—A local variety of much promise. Medium size; yellow and red free stone; flesh light yellow, sweet and good. This is the earliest variety of the list, ripening the last of July or first of August.

**Russell No. 1**—Medium size, whitish with red cheek; pit small and free. Flesh greenish-white, juicy and good. Middle of August to September. One of the very hardiest and most profitable varieties.

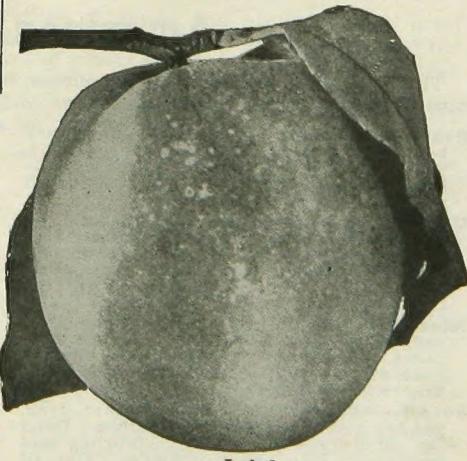


Russell No. 1.

**Bailey (Friday Seedling)**—Medium size; whitish with red cheek; flesh white; juicy; sweet and good. Pit very small and free. September. This variety has been grown in Iowa for over seventy years and has averaged three crops every five years.

**Banner**—A Canadian variety; medium to large; deep yellow with crimson cheek; good. September. free stone. Flesh yellow, rich, firm and

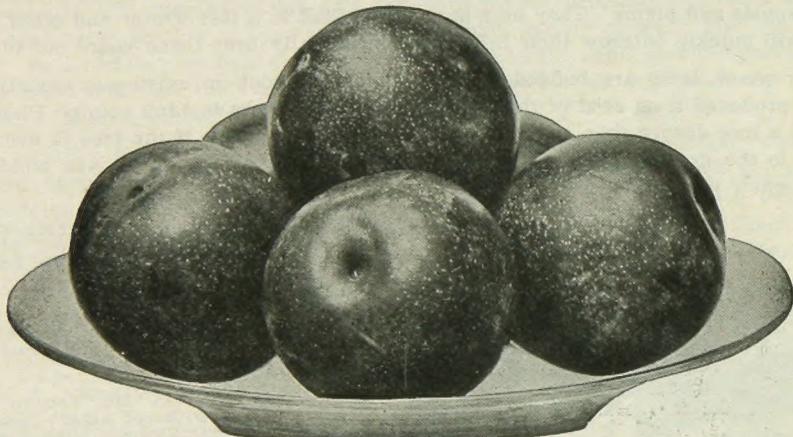
**Bokara No. 3**—Medium to large; free stone; yellow with red cheek; flesh yellow, juicy and good. September. A hardy variety from Asia.



Leigh.

## Plums

No other fruit has a greater variety of uses, or is capable of satisfying a greater variety of tastes than the plum. It is in its native element in Iowa soil and climate, this section having been favored with many choice varieties in its primitive state.



**Surprise.**

**Varieties.** We are making this fruit a specialty and our experimental orchard is our delight. Up to the present we have planted in it about 300 varieties, most of which have been discarded. It is our aim to test all varieties which come well recommended and propagate only the best. By careful selection one may enjoy fresh plums from early July until late October.

**How Propagated.** All our plum trees are budded or grafted on native plum seedlings, which experience has proven are the only stocks which are sufficiently hardy to stand the severe winters of this climate.

**Cultivation.** If you give them your best land and as thorough and frequent cultivation as you do your cornfield or garden you will succeed. Clean cultivation is one of the best remedies for the plum curculio. Where cultivation is impracticable, poultry will destroy most of the curculio if allowed to run among the trees.

**Grouping.** We have made four groups of plums, based on their origin.

## American Varieties

These include red and yellow plums of several species and are native to the northern part of the United States.

**Beatty**—Large to very large; oblong, very beautiful; yellow and red; free stone, very good. Last of August. Not a regular bearer. Terry is equally good for all purposes and more prolific.

**Desoto**—Our old standby. Medium to large, roundish, bright yellow and red, free stone; very good for every purpose. Last of August. Very hardy and healthy; its one fault in overbearing. Thin the fruit for best results.

**Miner**—An old variety, large, round, dull red; cling stone. Valuable for all purposes. September. Should be planted with other varieties to secure pollination, otherwise it may be a shy bearer.

**Surprise**—Large, red, cling stone; rich, sugary and delicious. September. Good for all purposes. Prolific, vigorous and hardy far into the Northwest. One of

the most valuable for market or home use.

**Terry**—Large to very large, purplish red; thin but tough skinned, very good. Thrifty, hardy and prolific. Many good judges consider this the best of all American plums for every purpose. September.

**Victor**—Very large, purplish red and of good quality. Free stone.

**Whitaker**—Large, bright red, cling stone; sweet, juicy and very good. Skin thin and peels like a scalded tomato. The best and most dependable early variety; it very rarely fails. A remarkably vigorous grower. Middle of July.

**Hawkeye, Snyder, Stoddard, Wyant**—These varieties are so inferior to Terry that we no longer recommend them.

## Japanese Varieties

The varieties of this numerous family which we consider worthy to be retained in the orchard are very limited. The reason we retain any of them is on account of their size, good quality and great productiveness. In point of hardiness and other characteristics of tree, none of them can be highly recommended.



Spanish King.

**Abundance** (Sweet Botan)—Large to very large, greenish yellow with red blush and marked suture; excellent. One of the very sweetest of fruits. A vigorous upright grower and extremely prolific.

**Burbank**—Large to very large, marbled and overspread with dull red, cling stone. August. Flesh yellow, very sweet and agreeable. Very productive.

## European Varieties

This family embraces the European varieties of plums and prunes. They must be sprayed regularly to prevent the curculio and brown rot from destroying the crop. If it were not for these pests, this class of plums and prunes could be as easily and profitably produced as any of the common American varieties. Most of this group are most delicious dessert fruits, some are unexcelled for culinary use. We submit a short list of the best of this class for this section.

**Communis**—Large, roundish-oblong; dark blue, flesh yellow, juicy, sweet and very good for all purposes. September.

**French Damson**—Medium size, dark blue, almost black; free stone; flesh yellowish green. Splendid for dessert or cooking. Fruit colors long before ripe. Last of September. Very prolific, hardy and vigorous.

**German Prune**—Large, oblong, purple or blue; rich, juicy and very good. Vigorous and very productive. One of the best of the prune family.

**Horse**—Medium, dark blue, of splendid quality for cooking. One of the hardest and most reliable of the group here.

**Reine Claude (Bavay's Green Cage)**—Large oval, greenish, good. A great favorite wherever known. September. A spreading, rather slow growing tree.

**Shipper's Pride**—Very large, dark purple, and very showy. Flesh juicy, sweet and good; valuable for market. Last of August.

**Spanish King**—Large, roundish-oblong, blue; flesh yellow, juicy, sweet and very good. One of the best of this class of plums for all purposes. Hardy and vigorous. September.

**Tatge**—Large, roundish-oblong; dark blue; flesh yellow, sweet and good. Similar to Spanish King. Makes an excellent prune. September.

**Mirabelle**—The best of all plums, without exception. Small, bright yellow, free stone with extremely small pit. Delicious. Makes good sauce cooked without any sweetening. The tree is very slow growing, bushy, and is much attacked by borers but is otherwise hardy.

## Hybrid Varieties

From this time on this will be the most important group of plums. Plant breeders have developed the desirable characters or qualities of the other groups to the limit, and they cannot create new ones, so their hope for the future lies in combining the good qualities of the different groups or species. The Hybrid Group is made up of varieties with such combinations of characters and therefore differ from the older varieties of plums.

Except the Gold, Compass and Omaha, they were all originated by Prof. Hansen, of Brookings, South Dakota, one of the most scientific plant breeders, whose work is of immense value to the North and Northwest. All require thinning to get the largest size.

**Gold** (Robinson and Botan)—Large to very large, golden yellow with some red; juicy, sweet and good. Very productive, fairly hardy and vigorous.

**Omaha**—Large to very large, coral red. Flesh yellow, firm, juicy and highly flavored. Seed small. Thrifty and productive.

**Waneta**—A cross of the large Japanese plum "Apple" and the largest of our plums, "Terry." The following is from Prof. Hansen's description: "Size at Brookings in 1912 two inches in diameter, weight two ounces. Good red color, skin free from acerbity, flavor delicious." We have one-year trees only. Write for sizes and prices.

### CHERRY PLUMS.

All hybrids of Western Sand Cherry and cultivated plums. Like the sand cherry parent they all bear very young, often at one year old, and are almost completely covered with fruit which hangs to the tree until pulled off. Size and quality of the fruit resembles the plum parent. All are very thrifty and vigorous but grow more or less crooked and one-sided.

**Compass**—The first of the cherry plums to be produced. A cross of Miner plum and Sand cherry. Small, purplish-red with large pit and yellow flesh; very good for cooking.

**Opata**—A cross of Sand Cherry and Burbank's large Gold plum. Fruit about 1 3-16 inches in diameter, dark purplish-red with blue bloom; pit very small, flesh green, rich and sweet. One of the earliest to ripen. A customer at Sidnaw, Michigan, to whom we sent Opata the spring of 1913, wrote Sept. 9, 1914: "The ten Opata trees all bore fruit this summer and the fruit ripened before September 1st. Please let me know at what price you can ship 75 early next spring. I enclose picture of one of the trees that will be of interest to you." (Photo enclosed of a tree set out in April, 1913, and bearing 93 ripe plums September 1, 1914.)

**Sapa**—A cross of the Sand Cherry and Burbank's large purple fleshed plum called Sultan. Fruit slightly larger than Opata. Skin, flesh and juicy very dark purple-red, which makes this entirely unlike any other fruit grown here. Sapa makes very rich purple sauce of splendid quality and does not cook sour. Everyone is delighted with it. Nearly every customer to whom we sold trees two years ago has fruited it and been back after more. Not as vigorous as Opata and two weeks later.

**Wachampa**—Of the same parentage as Sapa. Fruit not quite as large, but uni-

form in size; purplish with light red flesh and very small pit. Very sweet and good and ripens with Sapa. A remarkably vigorous and better shaped tree.

**Ezaptan**—Also of same parentage as Sapa and not quite as large. Dark purple, flesh purple, of delicious quality, seed very small. The best of the cherry plums and one of the best of all plums for cooking. Entirely free from acidity or astringency and has a pleasant, characteristic flavor. August.

**Sansoto**—A cross of Sand Cherry and De Soto plum. Fruit round, about the size of the De Soto plum, almost black when fully ripe. Flesh yellowish green, slightly pleasant, skin thin; pit very small, cling. August.

**Cheresoto**—Same parentage as Sansoto and very much the same except in shape. Cheresoto is long and has a small point at the apex. August.

### APRICOT PLUMS.

These are hybrids of the large, flat Chinese Apricot plum, *Prunus Simoni*, and our native plums. They are all hardy, remarkably vigorous and symmetrical growers, and productive. The fruit of all these is well colored, distinctly flat in shape, very fragrant, so firm that it will keep several days or stand a great deal of shipping, and of such splendid quality for cooking that they are sure to be in great demand as soon as known.

**Hanska**—Large, bright red with heavy bloom; flesh yellow, very firm and fragrant, pit very small, semi-cling. The apricot flavor is brought out to perfection in cooking. August.

**Kagna**—Very similar to Hanska in every respect but ten to fifteen days earlier.

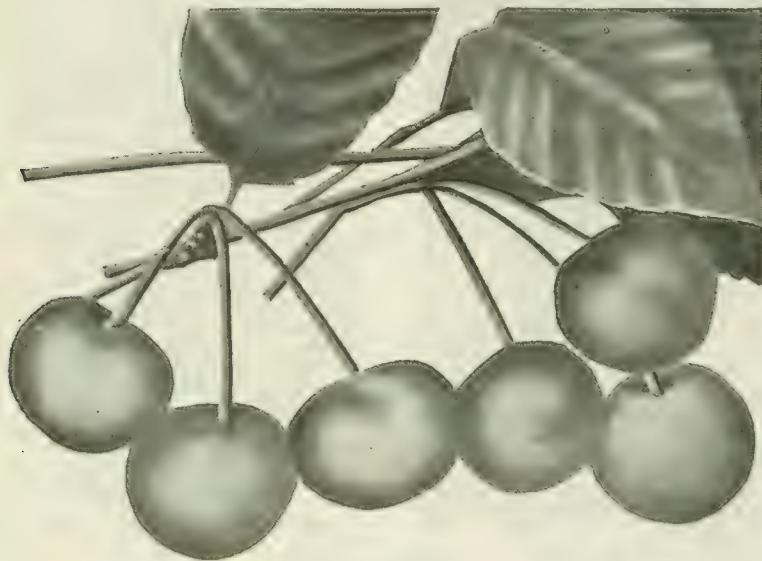
**Inkpa**—Also similar to Hanska in fruit, but earlier. The tree is more spreading than any others of the group.

**Toka**—We consider this the best of the Apricot plums. The fruit is slightly larger than Hanska, the flesh a deeper yellow and richer flavor. "The Toka plums you sent me I was more than pleased with; their rich mahogany color should make them a great seller on the market, and we cooked some of them as you suggested and found them the finest thing I ever saw in the plum line." F. L. Colby, Enfield, New Hampshire.

"Highest quality of any plum ever fruited at this station. Seemingly a great acquisition." Supt. Montevideo Trial Station, Minn. Horticultural Report, 1913.

## Cherries

Cherry trees thrive on almost any soil which is well drained but not where water stands about the roots. In extremely wet years they should be sprayed regularly with a fungicide to keep the foliage free from spot disease.



Early Richmond.

**Baldwin**—Very large; dark red; round, and good. Tree vigorous and healthy; very resistant to leaf diseases. A promising new variety.

**Dyehouse**—Large, round; red, and good. Is slightly earlier than Richmond and much like it.

**English Morello**—Almost identical with Wragg. One of the best of this class of cherries.

**Homer**—Fruit large, dark red, and good; ripens about the same time as Richmond. This is claimed to be the very hardiest of the cherries and has been grown in Minnesota for many years where other varieties are too tender.

**Montmorency**—Large to very large, round; red; ten days later than Richmond. Flesh firm, meaty, much superior to Richmond in quality. Tree very hardy and productive. One of the most profitable varieties to plant.

**Ostholm**—Large; dark red, almost black; tender, juicy and mild, almost sweet;

very good. A hardy Russian variety; the best of the Morellos.

**Richmond** (Early Richmond)—The standard early variety Red, round and juicy. First of June. Valuable for market or home use. Tree hardy, and a regular bearer.

**Timme**—One of the most promising new cherries. Fruit large, rich and meaty; berry hardy and prolific. Ripens with Richmond but is more productive. Pronounced by some to be the best variety for eating off the tree or for canning.

**Wragg**—Large; handsome, dark red; good. Early July. Should not be picked until dark colored. Hardy and productive.

**Yellow Glass** (Double Glass)—Fruit large, roundish, heart-shaped; bright yellow; juicy, very sweet and good; one never tires of eating them. Tree very vigorous; certainly the hardiest of sweet cherries. Imported by Professor Budd from Silesia in 1882.

## Grapes

There is not a yard so small but there is room for from one to a dozen grape vines. They may be trained on a building, arbor or fence if necessary, and they will richly reward the planter with an abundance of the most healthful fruit. The great quantity of grapes used for making grape juice makes it almost impossible to have an over-production of this fruit. Any well-drained land will produce grapes.

Plant them in rows, 6 to 8 feet or more apart. Dig holes so as not to have to fold the roots in planting and cut back the top to two buds. Prune off most of the new growth each fall and lay down the vines and cover with dirt for winter protection in the North.



Worden.

**Agawam**—Red; large to very large, aromatic, sweet and good. Very vigorous and productive. Needs winter protection.

**Beta**—A small to medium sized black grape, quite acid but of good quality. Very early, prolific and healthy. It is valuable chiefly for its hardiness. It is hardy without protection far into Minnesota, and on this account it is especially valuable for arbors where the large varieties are a little too tender.

**Brighton**—Red; large, sweet and delicious. Should be planted with other varieties to secure pollination. Requires protection.

**Campbell's Early**—Black; very sweet, juicy and good. This variety does not seem to be adapted to this part of the country. In our vineyard the vines have not paid for themselves and do not promise to do so.

**Concord**—Black. The well-known standard variety for all purposes. Size medium; succeeds wherever grapes are known.

**Delaware**—Light red; bunch and berry small and compact; very sweet and highly flavored. Best in quality of all American grapes. Needs winter protection for good results.

**Diamond (Moore's Diamond)**—Large, round and greenish-white; sweet, juicy and very good. Healthy, vigorous and prolific and very hardy. One of the best of the white varieties.

**Moore's Early**—Black; berries large to very large, round; very sweet and good. Two to three weeks earlier than Concord. This variety grows in favor every year; one of the most profitable for market and should be in every garden.

**Ningara**—White; large to very large; melting, sweet, with a peculiar, agreeable flavor. Hardy and productive. The best and most satisfactory of white grapes for all purposes.

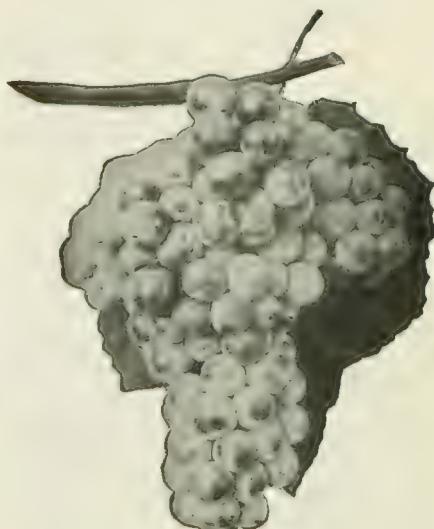
**Pocklington**—White; very large and showy; sweet and good. Vigorous and hardy. Ripens with Concord.

**Regal**—Large, dark red and juicy. Bunches large and compact. One of the hardest red grapes and very prolific. One year vines only.

**Woodruff Red (Woodruff)**—Large to very large; very sweet and good. A little earlier than Concord. Very vigorous, hardy and healthy.

**Worden**—Black; berry and bunch large and compact. Sweeter, better, and a little earlier than Concord. A strong grower, heavy yielder, healthy and hardy. The best and most satisfactory variety to plant for home use or market.

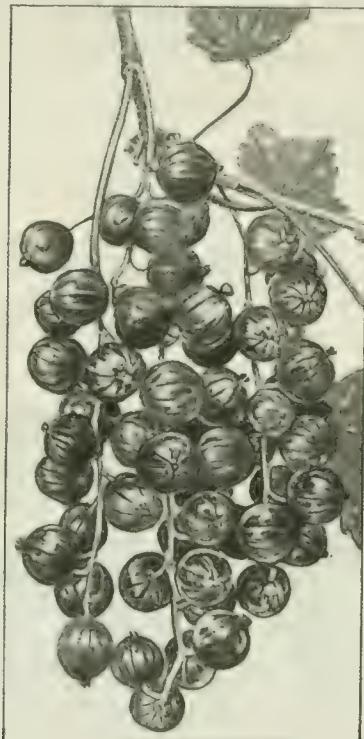
**Wyoming Red**—Light red; bunch and berry small, tender, sweet and good. Vigorous, hardy, and the earliest red grape.



Ningara.

## Currants

Currants do best on good, rich, moist soil and should be well manured and cultivated. Plant four to six feet apart and prune closely at the time of setting. Keep the old wood pruned out every year. The currant worm can be destroyed by a timely use of any of the arsenicals, or by white hellebore, if the fruit is too near maturity to use poisons. Currants have been in great demand the last few years and without doubt they are one of the most profitable fruits of all to grow. They can be left on the bushes two weeks after they are first ready for picking without injury.



Fay's Currant.

**Black Naples**—A very large black currant much valued for jellies.

**Cherry**—Berries very large; bright red, mild and good. An early variety, well adapted for market.

**Fay's (Fay's Prolific)**—Berries very large; bright red; mild and good. Another good market variety.

**London Market**—Berries large; bright red, firm and good. Clusters compact and very long. Vigorous and hardy; very healthy. One of the best for market.

**Perfection**—A cross between Fay's and White Grape, retaining the valuable characteristics of both; beautiful bright red, as large as Fay's, holding its size to the end of the bunch. Easy to pick, very prolific, mild and of very good quality. A valuable new variety.

**Pomona**—Berries large; bright red; very mild and good. One of the most productive varieties known.

**Victoria**—A standard variety; very large; bright red, mild and good. Very productive. A splendid variety.

**White Grape**—Berries very large; white; sweet and very mild; excellent. One of the very best currants of all.

**Wilder**—One of the most thrifty and productive. Clusters and berries very large, bright red, and of excellent quality. Ripens early but remains firm. A very profitable market variety.

## Gooseberries

All we have said about currants is also applicable to gooseberries. In addition to the arsenical, they should be sprayed with a fungicide to prevent mildew in unfavorable seasons.

**Carrie**—A Minnesota variety which is said to be much superior to Houghton; easier to pick, more attractive, more productive, healthier and hardier.

**Josselyn**—Large, smooth, prolific and hardy, of best quality. Free from mildew on leaf and fruit.



**Downing**—Large to very large, round; green; juicy and good. A very satisfactory variety.

**Champion (Oregon Champion)**—Large, roundish, greenish-yellow, very good. One of the most productive of all. Entirely free from mildew. We consider this our leading variety; the very best for all purposes.

**Houghton**—Medium, roundish, pale red; very good. Enormously productive. An old standby.

# Raspberries

A common plan for laying out a raspberry plantation is to plant in rows six to eight feet apart from two to three feet or more in the row; but recent experience has convinced us that there is a better way. It is to plant in hedge rows eight to ten feet apart and twelve to eighteen inches apart in the row. The dense hedge row smothers out all weeds and renders cultivation easier and quicker. The space between the rows should be frequently and well cultivated.

It is a well known fact that raspberries are always finer, larger and sweeter if grown partially in the shade; the hedge row furnishes this condition. It also protects the young canes from being twisted and broken by the wind. The result is more canes, finer fruit and easier and quicker cultivation. Give this plan a trial and you will be convinced of its advantages over the old way.

## Black Varieties

**Cumberland**—Very large; firm, sweet and very good; splendid for any purpose. Very vigorous, healthy and hardy. A little earlier than Gregg; one of the best varieties.

**Gregg**—Very large and productive; sweet and good, very firm. One of the best shippers. Eight to ten days later than Older.

**Kansas**—Large, early, moderately firm; very good. Enormously productive; withstands drought splendidly. Many give it first place for home use or market.

**Older**—Large, roundish; very early, rich and good. A great drought resister. Ripens perfectly; seeds small. Originated in Iowa, and is one of the hardiest on the list; a fine variety for home use or local market; not firm enough for long shipments.

**Plum Farmer**—Large, sweet and juicy, but firm; early and very productive. Splendid for every purpose. A new and promising variety.

## Purple Cap Varieties

**Cardinal**—Large, dark red, firm, with an agreeable rich flavor which develops to perfection in cooking. There is no better variety for canning or jam; it ripens rather late. The canes are upright, very strong and vigorous, with few thorns, and very free from diseases. One of the hardiest and most productive of all raspberries.

**Haymaker**—A rival of the Cardinal; large, dark red, firm and excellent. Very vigorous and hardy. Often declared to be the most profitable raspberry on earth.

## Red Varieties

These multiply by suckers and sprout all over the ground near them, so they must be confined to narrow rows by running the plow through them frequently during the growing season. With proper care and cultivation they excell all other raspberries in quality and equal them in productiveness.

**Colorado Ironclad**—Medium to large, bright red, sweet and delicious, but too soft for market use. Canes are very healthy, vigorous and hardy. A splendid variety for home use. Ripens with King.

**Eaton**—Bright red, very large, firm and of the best quality.

**King**—Generally considered the best early red raspberry. Berries large, bright red and moderately firm. It ripens with the earliest black variety. Canes are hardy, productive and vigorous.

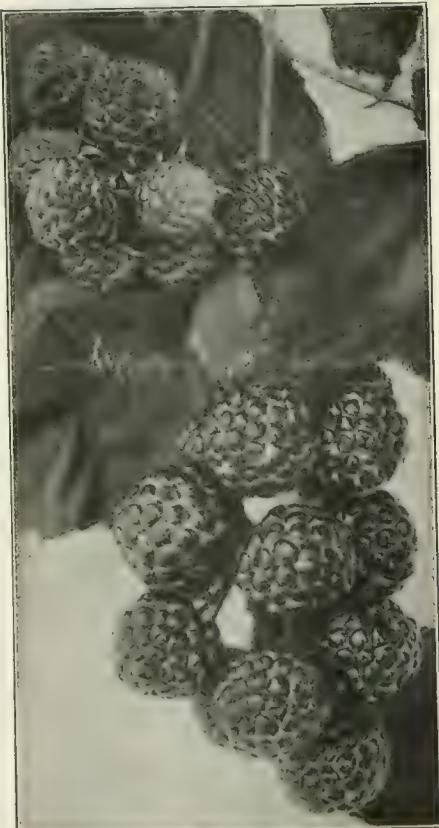
**St. Regis**—The much advertised ever-bearing variety. Bright crimson, large, sweet and good. Very prolific; the new canes bear fruit throughout the summer

and fall. Not as much of a success commercially as the fall bearing strawberries.

**London**—Very large, beautiful dark crimson, splendid quality and very productive. It endures our coldest winters without protection. One of the very best of the red raspberries.

**Ohta**—Large, red, quite firm, of good quality, and very prolific. Hardy far north without protection. One of Prof. Hansen's productions.

**Sunbeam**—Red, medium, of good quality and very valuable where hardiness is first to be considered as it is hardy to Manitoba. Another of Prof. Hansen's productions.



Cumberland.

## Blackberries

Practically the same general directions apply as for the raspberries. Our plants are root-cutting plants and are worth tenfold more to the fruit grower than sucker plants from old, exhausted patches; be sure you get the genuine nursery propagated plants and you will succeed. The blackberry is a stronger bush than the raspberry and should be planted in rows eight or ten feet apart, and from two to three feet apart in the row; otherwise, its culture is the same as for the raspberry.

**Snyder**—Years of experience has proved to us that there is no variety as dependable as Snyder for this climate. The stock we are propagating is from a plant selected from our old patch after observing for several years that it was

in every way superior to the common Snyder. The canes are extremely hardy and productive, the fruit medium to large, contains no hard sour core and is sweet and juicy, but firm.

## Dewberries

Great care and peculiar treatment are necessary for successful dewberry growing. They do well in high, well drained clay soil, but can be grown with good success on almost any good soil. Plant in rows seven or eight feet apart and four to five feet in the row. Begin pruning by pinching out the ends of the canes as soon as they reach a length of three feet, and if the laterals when they reach two feet. In the fall prune away all but six of the best canes to each hill and these canes to a length of four to five feet. Press them closely to the ground lengthwise of the row and cover with three inches of forest leaves or by throwing a light furrow upon them. Uncover in spring when all danger of freezing is past and tie to a wire trellis.

**Lucretia**—Claimed to be the best of the blackberry family and as productive as any. The berries are far larger and incomparably better than any blackberry, and of unequalled excellence; soft, sweet

and luscious throughout; of brightest glossy color. The Lucretia dewberry has received the indorsement and praise from the best horticulturists in the country.

## Asparagus

Asparagus is one of the earliest and finest of spring vegetables; so easy of culture, profitable and wholesome, that every family garden should have a liberal supply.

Choose well drained, fertile soil, work it up fine and deep, and place the plants in rows four feet apart and eight inches apart in the rows; spread out the roots in a trench made deep enough to permit their crowns to be covered with three or four inches of mellow soil; give the rows a liberal dressing of well rotted manure at least once a year, and fifteen pounds of salt per rod length early every spring. Do no cutting the first season.

Our plants are separated and transplanted at one year old, consequently they are much heavier than those usually sold and it is not necessary to mutilate them in dividing them as is usually done.

**Columbian Mammoth White**—A distinct variety of strong, vigorous growth, producing very large white shoots that in favorable weather remain white until two or three inches high, or as long as fit for use. Market gardeners and those growing for canning will find this a profitable variety.

**Conover's Colossal**—A mammoth variety of vigorous growth; tender and excellent quality. Sends up fifteen or twenty very large sprouts each year.

## Juneberries

**Improved Dwarf**—This is one of our most wholesome fruits. A delicious fruit to eat out of hand, or for pies and canning. Perfectly hardy and never fails to bear. Fruit resembles the blueberry and is borne in attractive clusters. Should be in every garden.

## Rhubarb or Pie Plant

**Linnaeus**—Large, early, tender and fine. **Victorina**—A large variety of excellent quality.



Asparagus

## Strawberries

No one owning a home, or for that matter, one who is renting for a term of years, can put a little money to better use than to buy three or four hundred strawberry plants. Nothing will bring quicker and greater satisfaction to the planter than a well kept strawberry bed.

The best time to plant strawberries is in early spring, and on fertile, new soil or old land brought to a high state of cultivation. If horses are to be used in cultivation, plant in rows three and one-half to four feet apart, and one to two feet in the row. Pinch off the blossoms the first season of the spring bearing plants and until about August 1st of the fall bearing kinds. This allows the plants to develop greater strength. About November 1st cover with straw and in the spring rake most of it between the rows, leaving just enough to keep the berries off the soil. Plant a new bed every year and you will always have fruit.

Our plants are strictly nursery grown and will give far better satisfaction than can possibly be obtained with plants taken from an old fruiting bed; such plants are not worth the digging. All plants dug fresh as they are shipped and are sent by mail or express.



Senator Dunlap.

**Senator Dunlap**—Out of a long list of more than thirty spring bearing varieties which we used to catalog, we now retain but one, the Senator Dunlap; a product of the Mississippi Valley and especially adapted to it. Probably no other variety of fruit ever introduced here has given as universal satisfaction, as this one. Every claim made for it has been more than met. Some of its strong points are:

1.—A clean, healthy and vigorous plant; capable of resisting intense cold and severe drought, and making an abundance of good and strong plants when almost every other variety fails.

2.—A long blooming season, with an abundance of pollen, making it one of the best self-fertilizers, and also the best for fertilizing pistillate varieties.

3.—A long fruiting season—coming in with the medium early and holding out when most others are gone—developing and ripening all its berries.

4.—Uniformly large, well shaped, dark bright red glossy berries with a very large, bright green calyx. Berries of the finest quality and flavor.

5.—A good keeper. Its long keeping qualities and attractive appearance make it more saleable than most others.

6.—A good canner, retaining its bright red color in the cans.

### Fall Bearing Varieties

We admit we had but little faith in the fall bearing strawberries when they were first introduced; but having had several years' experience with them we now consider them the greatest things introduced among the small fruits for a long time.

They produce a crop in the spring the same as the Dunlap but six to ten days earlier, and then begin bearing again about July 15th and continue until freezing weather. They are highly bred plants and require high culture for the best results, but if they have it, will produce wonderful results.

**Americus**—Self fertile. Medium to large, bright light red, very solid and has the splendid flavor of the Wild Strawberry. The fruit is borne above the leaves on stout stems. The plants are very vigorous, deep rooted, healthy and hardy. New plants bear as soon as formed.

**Progressive**—Self fertile. Medium to very large, about the shape, color and quality of Dunlap, and the plants resemble them. The originator of these varieties says this one is the best of all. Eight to ten days earlier than Dunlap in spring.

# Evergreens

The following species are the best kind of evergreens to plant in this state for shelter belts and ornaments. There is nothing which will add more to the value of a farm or more comfort to its occupants than a well-arranged plantation of evergreens. Their shade is cool and refreshing in summer and a belt of them is the greatest barrier against winter blasts that can be provided.

Our evergreens have been two or three times transplanted; are heavily rooted, stocky, thrifty plants. Failure with evergreens is usually due to careless handling, planting or cultivation. Any soil that will grow corn or garden vegetables is suitable for evergreens.

## DIRECTIONS FOR PLANTING AND CARING FOR EVERGREENS.

**Handling.** Evergreen roots must always be very carefully protected from the sun and dry air. If they ever become thoroughly dried, the tree, unlike other trees, can never be revived. The roots should be dipped in a paste of mud before placing in the hole.

**Planting.** Dig holes large, so that the trees are not crowded, using the top soil in the bottom of the hole, and arranging the roots carefully, working the fine soil around and among them with your hand and shaking the tree occasionally as the filling is going on, to settle the soil. When the roots are well covered, hold the tree upright, treading the soil very firmly around and over them with the feet. When this is done you have a basin or a hole around the tree that will hold half a pail of water; fill this basin with water and in half an hour or so, after the water has soaked away, fill the basin with good, mellow soil without much tramping.

**Watering.** The month of August is the critical period for newly planted evergreens, for during this month, unlike deciduous trees, evergreens make a new root growth which requires moisture. If the rains have not been plentiful the trees should be watered. Make a basin around each tree by pulling away the soil with a hoe and water as above. If the season is very hot and dry, this watering should be commenced the latter part of July and continued through the period of drouth.

**Cultivation.** Thorough cultivation is very essential to the growth of vegetation of all kinds and nothing appreciates it more than evergreens. They should be cultivated at least once a week up to August 1, when a good mulching of partially rotted hay or straw may be given. Care should be taken not to use green manure as it is detrimental.

**Seedlings.** The largest sizes of seedlings may be planted and treated as above; smaller sizes should be planted in well prepared beds with a dibble, and shaded the first season.

**Windbreaks.** Plant spruces, firs and arbor vitae in single rows, four to six feet apart; double rows, ten feet apart; Scotch and bull pines, single row, eight feet and double row ten to twelve feet; white pine, single row, eight feet; double row, twelve to fourteen feet.

**Hedges.** Arbor vitae, ten to eighteen inches, fifteen inches apart; eighteen to twenty-four inches, eighteen inches apart; two feet and larger, two feet apart. Spruce and cedar, two to four feet apart, according to size.

## PINES

**White Pine** (*Pinus strobus*)—One of the best, largest and longest lived Evergreens. The foliage is warm light green, often with a bluish tinge. The leaves are in fives, three to four inches long, very soft and delicately fragrant. After getting well started it is the most rapid grower of all Evergreens.



White Pine.

and adapts itself to a great variety of soils. It is one of the best for shelter, and the best large growing Evergreen to plant near buildings or along streets to be trimmed up for shade; few trees unite so many elements of beauty and utility as our native White Pine.

**Bull Pine or Western Yellow Pine** (*Pinus ponderosa*)—A heavy wooded pine and a rapid grower, forming a tree of great size. Its very long coarse foliage is a beautiful light green and stands out squarely from the limbs, thus making it very valuable for landscape or wind-breaks. This tree requires the best of care in transplanting, but when once started, thrives in almost any location, either wet or very dry. Undoubtedly this is the best pine for western Iowa and beyond.

**Scotch Pine** (*Pinus sylvestris*)—A rapid growing, hardy variety with stout erect

shoots and green foliage. Good for shelter or landscape planting. It is one of the hardiest Evergreens and adapts itself rapidly to the trying climate of the North and Northwest. It also thrives in the Southwest or West. It is rather short lived and cannot be depended upon for more than twenty-five or thirty years.

**Mugho or Dwarf Mountain Pine** (*Pinus Mugho*)—This unique Alpine species forms a very compact, dark green, dome-shaped bush, broader than high. It is very valuable for planting on lawns, terrace banks, hillsides, rockeries, etc.

**Red Pine or Norway Pine** (*Pinus resinosa*)—One of the finest of the Pines but not generally known. It grows almost as rapidly as the White Pine and makes a very pretty tree. The leaves are very numerous, about six inches long and a bright dark green.

## Spruces

**American White Spruce** (*Picea alba*)—A pyramidal tree of dense growth, with light silvery green foliage. A longer lived, more compact, and in all respects a better tree than Norway Spruce. One of the best for general use and very fine for lawn planting.

**Black Hills Spruce**—A strain of the White Spruce native to the Black Hills. Slower growing, more dense and better colored than White Spruce. Some specimens rival Colorado Blue Spruce in color. One of the hardest and easiest to transplant of all the Spruces.

**Colorado Blue Spruce or Silver Spruce** (*Picea pungens*)—This Evergreen grows over a greater range of territory than any other member of the Evergreen family. Its home is in the clefts and recesses of the Rocky Mountains, where it grows on barren soils, exposed to the roughest weather. It heads the family of Spruces for hardiness and longevity and is the most ornamental of the Evergreen family. Seedlings vary from dark green to silvery blue; a description can do it justice, it has to be seen to be appreciated.

**Koster's Grafted Blue Spruce**—These are uniform in color and finest blue green it is possible to obtain.

**Norway Spruce** (*Abies excelsa*)—A very popular variety from Europe. It has been more extensively planted in this country than any other Evergreen. It is a rapid grower, easy to transplant, and adapted to a great variety of soils, but rather short lived.

## Arborvitae

**American Arborvitae** (*Thuya occidentalis*)—One of the finest Evergreens for ornamental screens or hedges. It grows rapidly, soon forming the most beautiful hedge. It bears trimming to any extent desired, and plants which have been rendered compact by clipping, retain the fresh green of their leaves in winter better than those with more open foliage. For an ornamental hedge, plants may be

set fifteen to twenty-four inches apart; for a screen to grow tall, plant about two to three feet apart.

**Chinese Pyramidal Arborvitae**—A rapid growing, upright tree, not as dense as the American Pyramidal but with bright green foliage.

**George Peabody Arborvitae**—One of the most beautiful members of the Arbor-



Colorado Blue Spruce.

vitae group. A vigorous, compact grower with beautiful golden green foliage. Hardy and valuable to contrast with other colors.

**Globe Arborvitae** (*Thuya globosa*)—Very dwarf and compact; grows naturally into a rounded, almost ball-like form.

**Pyramidal Arborvitae**—A very hardy compact Arborvitae which forms an elegant and very slender shaft of dark green. Superior to, and much hardier than, Irish Juniper. Much planted in cemeteries and is one of the most satisfactory of the ornamental Evergreens, with fine, bright green foliage, silvery underneath. Hardy, but requires moisture.

## Firs

**Balsam Fir** (*Abies balsamea*)—A well-known, popular tree, very handsome while young, assuming an upright, conical form. Leaves dark green above, silvery beneath; retains its color throughout the winter; grows rapidly and is desirable in every way, but should

## Shade and Ornamental Trees

We can furnish a limited number of fine trees larger than are quoted of most kinds. If interested in these, send for prices.

**American Ash**—One of the most reliable of our native trees. It resists drought remarkably well and is not subject to injury by insects. A very thrifty grower, and worthy of more general planting.

**Bechtel's Double Flowering Crab**—A wild crab which produces masses of double rose-like flowers of a delicate pink color, and most delightful fragrance. Blooms while quite young and is as hardy as our common wild crab.

**Birch, Black**—A rapid growing species with larger leaves and denser top than most birches. Its yellowish gray bark has a spicy taste and odor.

**Birch, European White**—A rapid growing shade tree of beautiful form. Very desirable for street or lawn planting. By the time the tree is five or six years old the bark on the trunk and larger branches becomes a beautiful silvery white color. Entirely hardy in all parts of the Northwest.

**Catalpa Speciosa** (Hardy Catalpa)—A very rapid growing, hardy tree, with large tropical appearing foliage and large conspicuous bunches of blossoms in spring, followed by long bean-like pods. Desirable for shade and street trees.

**Elm, American**—One of the best of shade or street trees. It thrives in almost any soil, stands smoke and dirt well, and makes a large, spreading tree.

**Ginkgo or Maidenhair**—An ornamental tree, native of Japan. A very handsome, strange and striking tree, combining some of the characteristics of the Evergreens and deciduous trees. It is of medium height, fairly rapid in growth, and hardy. Its foliage resembles the Maidenhair Fern, hence its name. A rare and interesting tree.

**Hackberry**—A native tree which should be more planted. Its branches stand out horizontally and rarely split down. It is hardy, very rapid growing, thrives in all soils and is free from insect pests.

be planted where there is plenty of moisture.

**Concolor Fir or White or Silver Fir** (*Abies concolor*)—This Evergreen is of the rarest beauty; its beautiful silvery green foliage is the same the year round. It is a good grower and makes a large tree. It does best where somewhat protected from severe southwest or west winds and sun.

**Douglas Fir**—A large, spreading, pyramidal tree with light green foliage.

## Junipers

**Virginia Juniper** (Red Cedar)—A well-known American tree which varies much in habit and color of foliage. It succeeds well on the Western plains and dry, sandy soils where other Evergreens fail. Very desirable for ornamental purposes, windbreaks and hedges.

**Prostrate Juniper** (*Juniperus Sabina*)—A creeping cedar which is useful in landscape work where a bush rather than a tall tree is wanted.

**Horse Chestnut**—A very popular tree for street and lawn planting. Hardy. Covered in early summer with magnificent spikes of flowers.

**Linden** (Basswood)—A very graceful and beautiful tree for planting on the lawn. Its leaves are moved with the least breath of air and show the white surface underneath. Its blossoms are delightfully fragrant and the busy bee delights in their sweetness.



Concolor Fir



**Carolina Poplar.**

**May Day Tree** (*Prunus padus*)—A very rapid growing, spreading tree, bearing great masses of white flowers in racemes. The very earliest tree to leaf.

**Meehan's Globe Head Mulberry**—A very dense, compact variety of the Russian Mulberry. Said to be, and as far as we have tested it, apparently is, nicer and harder than the Catalpa Bungei. Grafted one-year heads only, five to six feet.

**Mountain Ash, Ash-Leaved**—Similar to the Oak-Leaved except that it has pinnate leaves.

**Mountain Ash, Oak-Leaved**—A handsome and hardy variety with deeply lobed leaves; distinct and fine. Covered in autumn with bright scarlet berries.

**Maple, Hard**—One of the most beautiful shade or ornamental trees; when given plenty of room, it forms a fine, round, dense head. In autumn its foliage presents varying and very beautiful colors as cold weather approaches, often becoming gorgeous.

**Maple, Norway**—A handsome tree of rapid growth, forming a wide, round head of spreading branches with broad, dark green leaves. Strong, compact, and very vigorous. One of the best for street, park or lawn.

**Maple, Purple Norway**—The gleaming red and purple tints of its young leaves and shoots contrast brightly with the delicate green of spring. At maturity they are purplish-green; in autumn, tints and shades of gold.

**Maple, Soft**—A splendid, rapid growing tree which thrives almost anywhere and makes fine shade.

**Maple, Tartarian**—A dwarf, irregular growing tree with dense, rounded top and small, three-lobed, light green leaves which are a brilliant red in autumn. Very hardy and healthy.

**Oak, Bur**—One of the very best of our native trees. Not difficult to transplant when nursery grown, and not as slow growing as most people think. In sizes up to five and six feet.

**Oak, Pin**—This is considered the most beautiful of all the oaks and is certainly the most popular for street or park planting. As the tree grows, the branches droop until the lower ones touch the ground, giving it a peculiar ovate outline. The leaves are deep green, glossy and finely divided, changing to orange and scarlet in the fall. The avenues of Pin Oaks in Fairmont Park, Philadelphia, are greatly admired.

**Poplar, Carolina**—A pyramidal robust grower with glossy, serrated, bright green leaves; the most rapid growing of all trees. Valuable for quick results. Does not produce suds or sprouts. Smoke and soot do not injure it. Perfectly hardy everywhere and thrives in all soils.

**Poplar, Bole**—A strictly upright growing tree like the Lombardy Poplar but is harder. Leaves silvery underneath; bark, smooth and light green.

**Poplar, Chinese** (*Pop. Balsamifera sauvetolens*)—A small leaved poplar imported by the Department of Agriculture. It is very pyramidal, looks like the Lombardy but is more beautiful and grows more rapidly. All who have seen this tree are much pleased with it.



**Catalpa Trees.**

## SHADE AND ORNAMENTAL TREES—Continued

**Purple Leaved Plum** (*Cestena*)—A cross of the Sand Cherry and purple leaved plum, *Prunus Pissardii*. A beautiful, hardy, ornamental shrub with rich purple-red leaves; in every way able to fill the place of the common Purple Leaved Plum which is too tender for planting here. This is not a fruit tree and is for ornamental planting only.

**Russian Mulberry**—A very rapid growing, drought resisting tree, which bears an abundance of fruit that attracts the birds for which it is often planted. The leaves are very variable in shape.

**Russian Olive**—The only real hardy deciduous tree with real silvery foliage which thrives here. It is very valuable for landscape work to contrast with the green of other trees. Its blossoms are extremely fragrant; a small sprig will perfume an entire house. It attains only medium size and bears heavy pruning remarkably well.

**Sycamore, American** (*Platanus occidentalis*)—A very rapid growing, spreading

native tree; always clean and healthy. One of the most desirable among our native trees for shade and street planting.

**Walnut, Black**—One of the most rapid growing of our native nut trees. A beautiful spreading tree valuable for shade, nuts and lumber. Our transplants are easy to transplant.

**Walnut, White or Butternut**—A native tree with a spreading top and tropical appearing foliage. Also valuable for its nuts and wood. Very easy to transplant.

**Willow, Laurel-Leaved**—A hardy, broad-leaved willow with a symmetrical round top and glossy, dark green leaves; of striking appearance. The most ornamental of the willows. Very hardy and thrifty.

**Willow, Russian Golden**—A variety with bright yellow bark and very fine drooping branches. Very ornamental the year round.

## Weeping Trees

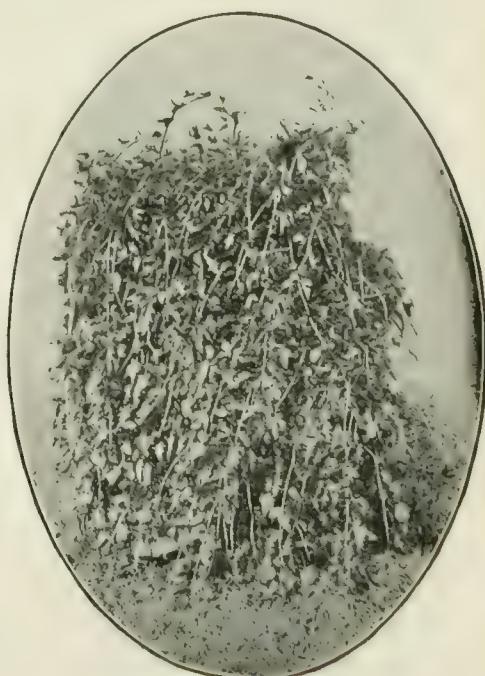
**Birch, Cut-Leaved Weeping**—Unquestionably the most popular of all the weeping or pendulous trees. Its tall, slender, yet graceful drooping branches, white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in a single tree. Entirely hardy, perfect, full-grown specimens are seen in Minnesota where the mercury drops to thirty or forty degrees below zero.

**Camperdown Weeping Elm**—This forms one of the most picturesque drooping trees. It is of rank growth, the shoots often making a zigzag growth outward and downward of several feet in a single season. The leaves are large, dark green and glossy, and cover the tree.

**Tea's Weeping Mulberry**—One of the hardiest and most vigorous of the weeping trees. It forms a perfect umbrella shaped head, with long, sweeping branches which reach to the ground. Produces fruit the same as Russian Mulberry.

**Weeping Mountain Ash**—A very hardy pendulous form of the European Mountain Ash which makes a conspicuous lawn tree. Should be pruned to make it branch symmetrically.

**Niobe Willow**—A perfectly hardy golden-barked willow of decided weeping habit, imported from Northern Europe by Prof. Hansen. The tree is a good grower and its long, pendulous branches almost reach the ground. The bright yellow bark makes it especially beautiful in winter.



Tea's Weeping Mulberry.



Hydrangea.

## Ornamental Shrubs

**Barberries**—See under Hedge Plants.

**Coral Berry** (*Symphoricarpos vulgaris*)—Similar to Snowberry except that the fruits are small red berries clustered in ropes about the stems, causing them to droop. The Snowberry and Coral Berry are valuable for planting in densely shaded places where few other shrubs would grow.

**Dogwood, Red-Twigged Siberian**—A very hardy bush six to ten feet high, bearing clusters of small white flowers in early summer and bluish berries later. The bright red bark of the twigs make it very showy in winter.

**Dogwood, Yellow-Twigged**—Similar to the above except that the bark is golden yellow instead of red.

**Golden Elder**—A valuable shrub because of its golden yellow leaves. It grows ten to fifteen feet high but can be pruned into a compact little bush.

**Golden Syringa**—A dense low growing bush with bright golden green leaves and white flowers. The best of the golden-leaved shrubs.

## Honeysuckles

(Also see under Climbing Vines.)

**L. Alberti** (Siberian Honeysuckle)—Dwarf (two feet), bushy, with silvery pinnate leaves and beautiful, fragrant, violet-pink flowers in June.

**Jap. Bush Honeysuckle** (*L. Morrowi*)—Grows four to six feet tall and spreading. Has pure white flowers in spring followed by bright red berries which hang through the fall.

**Tartarian Honeysuckle**—Bush or Upright Honeysuckle. An old-fashioned shrub with slender, upright branches and small fragrant flowers in May, followed by red or orange-yellow berries. Three colors, red, white and pink.

**Hydrangea paniculata Grandiflora**—A fine, hardy shrub which is very popular, easy to grow and blooms the same year it is

planted. The flowers are in immense panicles, creamy white at first, changing to pure white, and turning pink and brownish with age. It blooms in August and continues through September. The flowers will be larger and finer if given good rich soil and the plants cut back each spring fully one-half the past year's growth.

**Hydrangea Arborescens Grandiflora** (Hills of Snow)—A new variety with large white flowers resembling Snowball. The flowers are produced continually from June until late August.

**Japanese Quince**—Very early in spring this shrub is covered with bright scarlet flowers.

## Lilacs

Nothing is more beautiful than a clump, hedge or screen of these, and they should go into every border. In many country dooryards the neglected lilacs continue to bloom with a fragrance and beauty that is unsurpassed by any other shrub.

**Common Purple**—The old-fashioned kind.

**Common White**—

**Persian Lilac**—A late blooming variety with slender branches and narrow leaves. Flowers pale lilac, very fragrant and in large panicles. A low growing shrub.

## BUDDED VARIETIES.

**Alphonse Lavalle**—Large panicles of double violet-blue flowers.

**Belle de Nancy**—Double white flowers that are tinged with purple.

**Frau Dammann**—One of the best; a free bloomer with medium sized white flowers, borne in large panicles.

**Mme. Abel Chatenay**—Pure white flowers in compact panicles.

**President Grey**—The individual flowers are very large and double, a beautiful blue in color. The panicles are larger than those of any other variety.

**Ludwig Späth**—The single flowers are very dark purple, and distinct from other kinds.

**Senateur Volland**—A good variety with double rose-red flowers.

## Spireas



**Snowball.**

**Mock Orange** (*Syringa*)—One of the most desirable shrubs. Flowers are one or two inches in diameter, pure white and delightfully fragrant. It grows to a height of eight to ten feet and blooms profusely in the spring.

**Privet, Amoor**—A hardier variety than California Privet and as desirable for all purposes. It may be trimmed into any shape desired; in a hedge or as specimens. The leaves persist until late in fall. Very healthy and vigorous.

**Privet Polish**—This we believe is the hardiest of the Privet. It may be sheared to any extent desired and is perfectly smooth. One of the best hedge plants.

**Siberian Pea Tree** (*Caragana Arborescens*)—A dwarf tree with bright green bark and yellow leaves and pea flowers in spring. Hardy anywhere.

**Smoke Tree or Purple Fringe** (*Rhus Co-tinus*)—An interesting shrub because of the mist-like covering that panicles of its peculiar bloom present.

**Snowball**—A well-known shrub, producing its snowy white flowers in large balls or masses in May or June. For the best effect, trim into a round ball shaped bush.

**Snowberry** (*Symphoricarpos racemosus*)—A bush three to five feet high with small rose colored flowers in June or July, which are followed by large milk white berries in clusters, and these hang until late in winter.

Low growing shrubs well adapted for hedges, shrubberies or single specimens on the lawn. They grow easily in almost any moderately moist soil and with very little care or attention.

**Spirea Anthony Waterer**—This makes an excellent dwarf hedge about two feet high if not pruned. It is smooth and very attractive when in flower. Plant fifteen inches apart.

**Spirea Van Houttei**—A good smooth hedge plant becoming five or six feet high if not pruned. In the spring it is a solid bank of white. Plant fifteen to eighteen inches apart.

**Sumac, Fern-Leaved**—A tall growing stag-horn sumac with finely cut, large, compound leaves which are very attractive, and fern-like.

**Tamarix**—This hardy and beautiful shrub, of strong but upright growth, is clothed with foliage as light and feathery as that of the asparagus, and its delicate fringing pink flowers are borne in spikes. Very ornamental at the back of shrubbery and desirable for decorations and bouquets.

**Weigelas**—All bloom profusely in spring and early summer. They need some protection in winter here.

Weigelia rosea—A soft, rosy pink.

Weigelia candida—Large, pure white.

Weigelia Eva Rathke—A brilliant crimson, the finest of all and produced throughout the season.



**Tamarix.**



Honeysuckle.

## Climbing Vines

**Actinidia Polystachya** (Silver Sweet Vine)—A rapid growing vine with shining green lanceolate foliage and small white fragrant flowers. Good for covering trellises or walls.

**Ampelopsis Engelmanni** (Engelman's Ivy)—Not poisonous. Similar to our native Virginia Creeper but is more dense, rapid growing and clings readily to any smooth surface. A very desirable vine for all kinds of walls, tree trunks, etc.; much hardier than Boston Ivy.

**Ampelopsis Tricolor**—A fine vine with foliage variegated with white and pink. In fall it is covered with metallic blue berries. Does not cling to a wall but is fine for a trellis.

**Ampelopsis Veitchii** (Boston Ivy)—One of the finest vines for covering smooth walls; it readily clings to any surface and covers it with bright green foliage which changes to crimson and yellow in autumn. It should be given winter protection until well established.

**Honeysuckle, Scarlet Trumpet**—Bears coral-red flowers throughout the summer and fall.

**Trumpet Flower**—A splendid vine, vigorous and hardy, and a very rapid grower; well adapted for covering unsightly objects. The flowers are large, being fully four or five inches long and in clusters.

**Wistaria**—A beautiful climber of rapid growth, often growing fifteen to twenty feet in a season, and producing long, pendulous clusters of pale blue flowers about the size and shape of a bunch of grapes; sometimes gives second crop of flowers in the fall.

**White Wistaria**—A white form of the above.

**Wistaria Multijuga**—A new Japanese variety with extremely long, loose panicles of deep purple flowers.

## Clematis

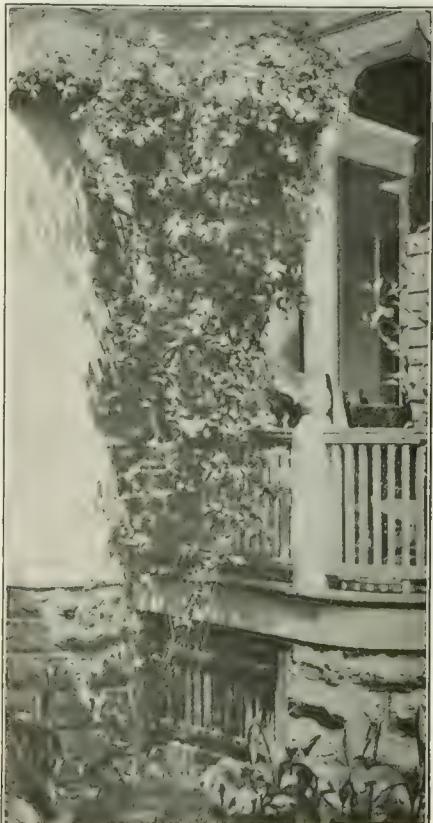
These vines delight in a sunny situation and good rich soil. They are perfectly hardy but the top kills back in the winter. There is nothing better for training on pillars, trellises, porches, or for covering rocks or old stumps. All strong field-grown plants.

**Clematis paniculata**—This remarkable flower blooms in September. It is one of the finest hardy climbers, with handsome foliage, and of very vigorous, rapid growth. In late summer it produces dense sheets of medium sized, pure white flowers of the most pleasing fragrance, making a gorgeous sight. This is a new Japanese plant, perfectly hardy and finely adapted for covering any object.

**Clematis Jackmanii**—This is perhaps the best known of the Clematis. The plant is a free grower, and an abundant and successful bloomer, producing flowers until frost. Flowers are large and of an intense violet-purple, remarkable for their velvety richness. It has no superior. July to October.

**Clematis Henryi**—The best white variety. Fine, large, creamy white flowers; strong grower, hardy, perpetual bloomer.

**Clematis Madame Edouard Andre**—A distinct carmine red in color.



Clematis Jackmanii.

## Roses

Our bushes are all strong, field-grown two-year-old plants on their own roots, and are not to be compared to the cheap bushes often offered which are budded on short-lived foreign stocks.

Plant them three to four inches deeper than they stood in the nursery and in the richest, best soil obtainable. Trim off nearly all the top and they will do much better than if it was left on. Use powdered sulphur for mildew, arsenate of lead for eating insects and tobacco infusion or strong soap solution for lice.



American Beauty.

## Climbing Roses

**American Pillar**—Large single flowers borne in immense bunches. They are a lovely shade of pink with a white center and large clusters of bright yellow stamens. The flowers are very fragrant and last well and are followed by brilliant red berries which hang till late winter.

**Crimson Rambler**—A well-known rose, bearing numerous clusters of bright crimson flowers; a superb climber, very hardy and free flowering. One of the best for training on walls, pillars and fences. It gives universal satisfaction.

**Dorothy Perkins**—One of the best of all the climbers. Hardy, a good grower, and blooms very freely the first year set. The flowers are of good size, produced in enormous clusters, very dainty pink, fragrant, and last much longer than the other Ramblers. The foliage is free from insects and diseases.

**Excelsa** (Red Dorothy Perkins)—A bright crimson form of the Dorothy Perkins with the same clean foliage and habits. On this account it is pronounced by some of the leading rose growers to be the successor to Crimson Rambler.

**Hiawatha**—Flowers single, about one and one-half inches across, and produced in long pendulous sprays. Its color is brill-

iant ruby-carmine with a clear white eye and a mass of golden stamens. There is no more brilliant climbing rose than this.

**Prairie Queen**—An old, well-known climber. Flowers double, bright pink, fading to nearly white.

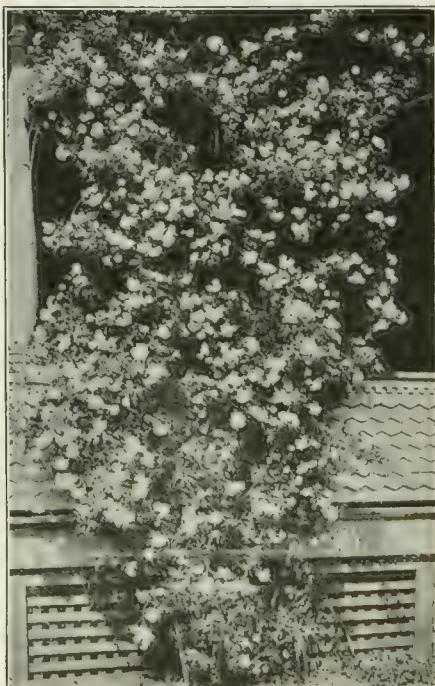
**Thausendschön** (Thousand Beauties)—A rapid growing, almost thornless climber of exceptional value and attractiveness. Its many flower clusters show every shade of rose and crimson, with white and yellow variegations.

**White Dorothy**—Similar in every respect to Dorothy Perkins except that it is white. One of the best of the new climbers.

## Half-Climbing Roses

**Baltimore Belle**—Very double, white with pink blush. One of the best climbing roses, but must be protected in winter.

**Grenville or Seven Sisters**—Large clusters with flowers varying from white to crimson. Luxuriant dark green foliage; perfectly hardy.



Dorothy Perkins Rose.

## Hybrid Tea Roses

**American Beauty**—Rich rosy crimson, delightfully fragrant and a very free, continuous bloomer; vigorous, healthy and moderately hardy.

**Gruss an Teplitz** (Virginia R. Coxe)—The flowers are a dazzling crimson, large and moderately double, produced in great profusion throughout the whole season. The bush is hardy, and a strong, vigorous grower. This is much the best rose of the class we have seen.

**La France**—A very popular variety. Buds and flowers of lovely form and of great size; exceedingly fragrant. Color, fine silvery-pink. It begins to bloom early and continues until frost.

## Hybrid Perpetual and Other Roses

**Frau Karl Druschki** (White American Beauty)—Pure white, large, fragrant, well formed, and very similar to American Beauty except in color. Very hardy and vigorous; by far the best white rose of all.

**General Jacqueminot**—This may truthfully be called the rose for the million. A universal favorite. Bright scarlet, exceedingly rich and velvety. One of the hardiest.

**Harrison Yellow**—A very bright yellow double rose, hardy and a profuse bloomer.

**Madame Plantier**—Pure white, produced in great abundance early in the season. An excellent hardy white rose.

**Paul Neyron**—One of the very largest roses known, often measuring five inches in diameter; color, bright rose; very fresh and pretty. A strong healthy grower with clean, glossy foliage and one of the most prolific bloomers in the hybrid class. Young plants in the nursery rows bloom almost without intermission from June until October.

**Persian Yellow**—A perfectly hardy climber. Brightest yellow of all roses; produces an abundance of medium sized flowers in June.

**Prince Camille de Rohan** (Black Prince)—Very large, deep velvety crimson, almost black. Very fragrant. By all means include this in your collection.

**Ulrich Brunner**—A splendid rose and one of the best of the class. Flowers very large, well formed, brilliant cherry red, and highly fragrant; produced in great profusion. Vigorous, hardy and healthy.

**Sweet Briar** (English Sweetbrier)—Much prized on account of the delightful fragrance of its leaves and young branches. Perfectly hardy and requires little care.

## Moss Roses

**Glory of Mosses**—Very heavily mossed; flowers glossy pink; fragrant. One of the best.

**Luxembourg Moss**—Large, bright crimson. A very fine, luxuriant grower and free bloomer.

**White Moss**—Large, full double, pure white and very fragrant. Perfectly hardy.

## Rugosa Roses

**Agnes E. Carman**—Flowers large, semi-double, fine in the bud state; rich deep crimson. A very free bloomer and continues a long time.

**Blanc Double de Coubert**—Purest paper white, blooming in clusters of five or ten; double and fragrant. A strong grower with true rugosa foliage; flowers large, lasting, and produced freely. Perfectly hardy.

**Conrad Ferdinand Meyer**—This variety has the ornamental foliage of the Rugosa and the beautiful fragrant flowers of the Hybrid Perpetual. The flowers are large, double, very fragrant and of a delicate silvery pink. Very vigorous and hardy without protection.

**Hans**—Violet-red, large, fragrant and perfectly double. The flowers are in dense clusters which all bloom at once, thus appearing like one immense rose from a distance. Flowers are produced freely throughout the season. Absolutely hardy.

**New Century**—Large, clear flesh pink; flowers borne in clusters, perfectly double and full. Very fragrant and a wonderfully constant bloomer.

**Rosa Rugosa**—Foliage shiny, bright green; flowers single and very fragrant, bright rose color with yellow center. The leaves and buds are very beautiful. In time of winter it bears bright red berries. Requires no protection whatever and is well adapted for hedges. Strong two and three-year plants.

**Rugosa Alba**—A pure white form of the above.

## Baby Ramblers

Splendid varieties for bedding or for pot culture. They grow about eighteen inches high and bloom profusely throughout the entire growing season.

**Pink Baby Rambler**—Brilliant rose colored flowers.

**White Baby Rambler**—Pure white flowers with yellow stamens.

**Erna Teschendorff**—A deep cherry red which does not fade easily. One of the very finest of Baby Ramblers.

**Tree Roses** of Baby Ramblers, American Beauty, C. F. Meyer, Dorothy Perkins, F. K. Druschki, Gruss an Teplitz, General Jacqueminot and Ulrich Brunner can be furnished.



## Peonies

The herbaceous peonies have long been great favorites among hardy plants, but the wonderful improvements wrought by the plant breeder in recent years make them far more popular than ever. Many of the improved varieties rival the finest roses in fragrance and coloring, besides blooming much earlier and being much larger.

Peonies do best in good, rich deep soil and a sunny situation, although they do well in partial shade. They are hardy in the far north and west, requiring no protection. Once planted and started they need but little care. The blooms are often small or even single the first year after planting, but increase in size and beauty each year. They should be planted in September or October if possible, but may be planted in the spring. Plant about two inches below the surface in deeply worked, rich soil. If planted in the spring they may not bloom until the next spring. We offer the following list of choice varieties at reasonable prices. If wanted in large quantities, please write for prices.



Peony *Festiva Maxima*.

**Alba Sulphurea**—White with yellow center. A fine flower and favorite.

**Festiva Maxima**—A large ball of white with center petals dashed with red; an early bloomer and splendid keeper. In great demand for cut flowers, and is very popular everywhere. One of the very best peonies known.

**Fragrans**—A bright deep rose color, very large and double; extremely fragrant and free blooming. A splendid variety.

**Francois Ortegat**—A very brilliant crimson, producing a blaze of splendor, almost purple. It is a vigorous and striking flower, with a delightful spicy fragrance. No collection is complete without it.

**Grandiflora Rosa**—Pink and early. The outer and center petals are red; slightly fragrant. A prolific bloomer; robust and vigorous.

**Grandiflora Rubra**—One of the latest and best. Flowers immense, very dark red with bright yellow stainens in center; often only semi-double on young plants.

**L'Espearence**—A beautiful rose-pink, fragrant, and an early bloomer; very fine for cut flowers. One of the best.

**Magnifica**—Large, delicate and fragrant; red, turning to pink.

**Marie Lemoine**—This flower fills all the requirements we demand of our favorites. It is as sweet as a rose. It opens slightly yellow, then fades to purest white.

**Officinalis Rubra**—The old-fashioned bright red, very early flowering kind. They are always out for Decoration.

**Pottsi**—A splendid flower; deep crimson with bright yellow center. One of the earliest.

**Reeves**—An immense flower and free bloomer; light rosy pink, center petals dashed with red.

**Rubra Triumphans**—Fragrant flowers of brilliant crimson. It does not bloom as soon as some others, the plants seem to require age, but are worth waiting for.

## Hardy Perennial Phlox and Iris

No class of hardy plants is more desirable. They thrive almost anywhere with a little care, and are useful for borders about shrubbery and for groups. The flowers are very showy and brilliant and last through a long season. In the last few years they have wonderfully improved.

The following are some of the most choice varieties

- B. Conte**—A glowing purple; one of the finest of the dark colored varieties. Tall.
- Caran d'Ache**—Geranium red with old rose shadings and white center. Tall.
- Ecclaireur**—Salmon and scarlet with crimson eye. Medium.
- Henry Murger**—Very large, pure white with carmine center; tall.
- Lothair**—Carmine pink with crimson eye; medium. A splendid variety.
- Miss Languard**—A very early white variety with immense long heads; blooms from June to October. Medium.
- Obergartner Wittig**—Bright magenta with crimson carmine eye; large flowers and truss. Tall.
- Selma**—A pretty, delicate rose with distinct red eye. Medium.
- Von Hochberg**—A brilliant crimson, the richest of its color. Tall.
- Von Lassberg**—Purest white, flowers very large; one of the best white varieties. Medium.

### Japanese Iris

These splendid flowers bloom about the middle of June and continue five or six weeks. They should have deep, rich soil and plenty of water. The double are six-petaled and the single three-petaled. Order either by number or name.

- No. 94. Komochi-guma**—Rich, velvety pansy-violet.
- No. 14. Shishi-ikari**—Light, veined and mottled with dark purple.
- No. 22. Sano-watashi**—Double, white with canary yellow center.

### German Iris

These do best in a well-drained, sunny position and should be planted very shallow. They bloom in May and are among the very easiest of the hardy spring-flowering plants to grow.

Order by number or name.

- No. 1. Honorabilis**—Standards golden yellow; falls rich mahogany brown.
- No. 2. Johann de Witt**—Standards bluish-violet; falls deep violet-purple, veined with white.
- No. 3. La Tendresse**—Ageratum blue throughout.
- No. 4. Mme. Chereu**—Standards and falls pure white; daintily edged with light blue.
- No. 5. Spectabilis**—Standards and falls rich violet-purple; the earliest in flower.
- No. 6. Pumila Hybrida Cyanea**—Early; dwarf growing species; rich royal purple with darker shadings.
- No. 7. Orientalis**—An intensely brilliant blue, splendid for cutting. Tall.
- No. 8. Mr. H. Darwin**—Pure white with slight crimson penciling. Medium.
- No. 9. Excelsa**—A splendid pale lemon yellow, growing only a few inches high.

### Siberian Iris

Very free flowering, delicate, and splendid for cutting. They are hardy and the grass-like foliage is very attractive.

- Blue King**—Clear blue flowers. Medium.
- Orientalis**—An intensely brilliant blue. Tall.
- Snow Queen**—Large, ivory-white flowers. Medium.



Japanese Iris.

## Other Hardy Herbaceous Plants

### ALL STRONG TWO-YEAR-OLD ROOTS.

**Bleeding Heart**—An old-fashioned flower with heart shaped pink flowers, which are always attractive. Does well anywhere, even in shade.

**Boltonia Asteroides** (False Chamomile)—One of the showiest of hardy perennial plants, with large aster-like, pure white flowers. It blooms throughout the fall and makes a dense mass of white flowers from July until September.

**Boltonia Latisquama**—Similar to the above but has pink flowers tinged with lavender.

**Giant Daisy** (*Pyrethrum Uliginosum*)—One of the very finest autumn flowering plants. It grows four feet or more high, and is covered with very large white daisy-like flowers from August until frost. The plant also makes a handsome appearance when not in bloom.

**Golden Glow**—A hardy perennial plant, growing six to eight feet high, branching freely, and bearing on long, graceful stems hundreds of exquisite double blossoms of the brightest golden color, and as large as the *Cactus Dahlia*.

**Red and Yellow Columbine**—Has very long spurs and is very beautiful.

**White Columbine**—Blooms in spring and early summer.

**Yucca Filamentosa**—An interesting and tropical appearing plant which will endure any of our northern winters and is therefore valuable for those localities where flowering plants are scarce. It is an evergreen perennial, throwing up in the middle of the summer, flower stalks three feet in height, bearing a profusion of creamy-white, bell-shaped blossoms. One of the most beautiful plants for the lawn.

## Hedge Plants

Also see their descriptions in evergreens, shrubs and roses.

**American Arbor Vitae**—The commonest evergreen hedge plant; it bears any amount of shearing and will endure considerable shade if it has plenty of moisture. Plant fifteen to twenty-four inches apart.

**Siberian Arbor Vitae**—A better but slower growing variety than the American Arbor Vitae. Plant eighteen to thirty inches.

### Spruce in order of their preference—

#### Black Hills, White, Norway.

By planting a small size and pruning it regularly, these make a splendid hedge, but must be allowed to increase in size each year.

**Barberry** (*Berberis Thunbergi*)—The best of the barberries. Nothing excels this for a dwarf deciduous hedge. It is

thorny enough to repel small animals, easy to keep in order, as it needs little shearing, but may be sheared as much as desired. Set nine to fifteen inches apart.

**Hydrangea Paniculata Grandiflora**—This makes a very showy hedge which is perfectly hardy and always a success. It has no thorns and blooms over a long period. Plant fifteen to eighteen inches apart.

**Rosa Rugosa**—The white and red forms are unexcelled for a flowering hedge. They are thorny enough to keep out intruders, perfectly hardy, and always attractive. Plant eighteen inches apart.

**Polish Privet**—The hardiest and best of the privets for the North. It can be sheared as much as desired, remains green until late in the season, is not thorny, and the foliage is always healthy and bright.

**Barberry, Green or Common**—This grows six to eight feet high if untrimmed, but may be kept at any size by pruning. Plant twelve to eighteen inches apart.

**Barberry, Purple**—Similar to the above but has purplish red leaves instead of bright green.

**Spirea Van Houttei**—Makes an attractive hedge throughout the year and especially in the spring when in bloom. Plant eighteen to thirty inches apart.

**Spirea Anthony Waterer**—Makes a very fine, low hedge requiring no trimming and never exceeding two or three feet in height. Plant fifteen to twenty-four inches.



Daisy.

**Rosa Rugosa**—Attains a height of six to eight feet if untrimmed and is attractive because of its beautiful leaves, the numerous large single roses produced through the summer and the large crimson hips which hang till into the winter. Plant eighteen to thirty inches.

**Dogwood, Red-Twigged**—One of the most beautiful of all hedge plants in winter because of the brilliant red bark. Plant fifteen to twenty-four inches.

**Russian Olive**—Splendid for a tall hedge or screen, especially in the West and Northwest, where it thrives remarkably. Drought, heat or cold do not affect it and it may be trimmed as severely as one likes. Plant twenty to thirty inches apart.

**Amoor Privet**—A hardy shrub with glossy green foliage which holds its color very late.

## Forest Tree Seedlings

These are just the thing for starting hedges, screens, windbreaks and timber plantations. If wanted in large quantities, write for special prices.

No matter how valuable the land every farmer can make a woodlot profitable. It can constitute the windbreak and at the same time furnish posts and repair material and fuel. There is much land along streams which might be planted to trees and would become very valuable, instead of furnishing only poor pasture as it does now. The time is soon coming when good timber will be in great demand in this state.

Where planted for groves, cultivated crops may be planted between the rows for several years. The land may be planted to corn and a seedling planted in the place of every alternate hill. In this way the seedlings will get the necessary cultivation.

**American Ash**—A valuable variety to plant because of the high value of the wood for agricultural implements, repair purposes, etc.

**Box Elder**—Valuable chiefly in the semi-arid West and Northwest because it grows rapidly and stands much drought and cold.

**Catalpa Speciosa** (Hardy Catalpa)—These are grown from seed collected from trees of known hardiness. This is one of the most valuable trees for planting up to central Iowa. It grows very rapidly, reproduces quickly from the stump, and is very durable in the soil. Seedlings should grow two years, then be cut back so as to secure a straight stem. They should be well cultivated for several years.

**White Elm**—A very rapid growing tree on deep, moist soil. The wood is excellent for fuel if well seasoned, and makes good lumber.

**European Larch**—Has produced higher annual net returns than any other tree in Iowa. It makes durable posts and poles, and good fuel. Plant six by four feet in any good land not excessively wet. This tree must be ordered early or we cannot fill the order. It starts to grow very early in the spring, consequently we will send these out by express before our regular deliveries.

**Honey Locust**—The most valuable two-purpose tree. It produces excellent posts and the best of fuel and is one of the most rapid growers. It is unexcelled for windbreaks and makes an excellent hedge which will stand severe pruning.

**Russian Mulberry**—Valuable for hedges and windbreaks. The wood is tough and durable in the soil. The fruit is edible and attracts birds from other fruits.

**Osage Orange**—This is hardy in the southern part of Iowa. It makes an impenetrable hedge and is one of the most durable woods known in the soil.

**Soft Maple**—A very rapid growing tree, valuable for fuel and windbreaks. Plant eight by eight or six by eight feet. Maple groves in this state have yielded over \$10.00 per acre net annual returns at about twenty-five years after planting.

**Black Walnut**—A profitable variety to plant in deep, rich, moist soil. It is valuable for the nuts and the lumber, which is one of the highest priced of American woods.

## Fruit Tree Seedlings for Grafting or Budding

Consisting of apple, plum, pear, cherry and peach seedlings. We can supply these if ordered early, otherwise, our supply may all be exhausted. Write for prices.

## Miscellaneous Supplies

**Raffia**—Best Madagascar—for tying buds and plants. 20c per pound; six pounds for \$1.00.

**Grafting Thread**—Unwaxed, 10c per ball; waxed, 15c per ball. If by mail, add 2c per ball for unwaxed and 7c per ball for waxed.

**Grafting Knives**—Hand forged, razor steel. 40c each. By mail 45c.

**Budding Knives**—Ebony handle, bone tip for raising bark, finest razor steel. 75c each. Add 5c for postage.

**Pruning Shears**—Best made; \$1.00 each. By mail, \$1.10.

**Root Grafts**—We have a large stock of most kinds of fruit tree seedlings, and will be prepared to put up first-class root grafts of almost everything mentioned in this catalog. Send list of grafts wanted and we will make the price right. Orders for grafts must be received before March 1st.



We will feel greatly obliged to you if you will give us below the addresses of any of your friends who are interested in the planting of Trees, Shrubs, Plants, Etc.

# Everbearing Strawberries



FALL BEARING PROGRESSIVE

Originated in 1908. Plants much like Dunlap, strong, healthy and very hardy, good plant maker. Fruit good, medium size, dark red inside and out; blossom, strong staminate; every bloom makes a perfect berry, bloom and fruit well protected by the foliage—a most valuable feature, as it takes extremely hard freezing to injure the fruit. Progressive is probably the most profitable fall-bearing sort yet introduced, as, with good culture, it will bear a paying crop the first year set.

# Delicious Apple



A very popular variety. Large, dark red and yellow, fine grained, crisp, juicy and delightfully aromatic.

Best quality; also a good keeper and shipper. The tree is very vigorous, hardy and a regular bearer. Succeeds everywhere.